DISCRETE MATHEMATICS
VOLUME 118, NUMBERS 1–3, 1 AUGUST 1993

CONTENTS

L.M. Batten
A characterization of finite linear spaces on v points, $n^2 \leqslant v < (n+1)^2$, and $b = n^2 + n + 3$ lines, $n \geqslant 10$ 1

A. Benhocine and A.P. Wojda
Graphs with every matching contained in a cycle 11

H.J. Broersma and F. Göbel
Coloring a graph optimally with two colors 23

P.J. Cameron and C.E. Praeger
Block-transitive t-designs I: point-imprimitive designs 33

S. Eliahou
The $3x+1$ problem: new lower bounds on nontrivial cycle lengths 45

R.J. Faudree and D.J. Knisley
A neighborhood condition which implies the existence of a complete multipartite subgraph 57

A. Frieze and B. Reed
Polychromatic Hamilton cycles 69

R.B. Hughes
Minimum-cardinality triangulations of the d-cube for $d=5$ and $d=6$ 75

S. Jendrol'
On face vectors and vertex vectors of convex polyhedra 119

T.M. Kratzke and D.B. West
The total interval number of a graph, I: Fundamental classes 145

D.E. Loeb
Towards the critical problem: on the coalgebraic relation between sets and multisets 157

Z. Lu
The harmonious chromatic number of a complete binary and trinary tree 165

I. Morris and C.D. Wensley
Cycle indices and subgroup lattices 173

D.S. Rajan
The equations $D^k Y = X^n$ in combinatorial species 197

S. Saidi
Codes for perfectly correcting errors of limited size 207

R.S. Sanders
Graphs on which a dihedral group acts edge-transitively 225

DISCRETE MATHEMATICS
VOLUME 118, NUMBERS 1–3, 1 AUGUST 1993

CONTENTS

L.M. Batten
A characterization of finite linear spaces on v points, $n^2 \leqslant v < (n+1)^2$, and $b = n^2 + n + 3$ lines, $n \geqslant 10$ 1

A. Benhocine and A.P. Wojda
Graphs with every matching contained in a cycle 11

H.J. Broersma and F. Göbel
Coloring a graph optimally with two colors 23

P.J. Cameron and C.E. Praeger
Block-transitive t-designs I: point-imprimitive designs 33

S. Eliahou
The $3x+1$ problem: new lower bounds on nontrivial cycle lengths 45

R.J. Faudree and D.J. Knisley
A neighborhood condition which implies the existence of a complete multipartite subgraph 57

A. Frieze and B. Reed
Polychromatic Hamilton cycles 69

R.B. Hughes
Minimum-cardinality triangulations of the d-cube for $d=5$ and $d=6$ 75

S. Jendrol'
On face vectors and vertex vectors of convex polyhedra 119

T.M. Kratzke and D.B. West
The total interval number of a graph, I: Fundamental classes 145

D.E. Loeb
Towards the critical problem: on the coalgebraic relation between sets and multisets 157

Z. Lu
The harmonious chromatic number of a complete binary and trinary tree 165

I. Morris and C.D. Wensley
Cycle indices and subgroup lattices 173

D.S. Rajan
The equations $D^k Y = X^n$ in combinatorial species 197

S. Saidi
Codes for perfectly correcting errors of limited size 207

R.S. Sanders
Graphs on which a dihedral group acts edge-transitively 225

Communication

M. Mollard
Interval-regularity does not lead to interval motonicity 233

Notes

K.P. Bogart
An obvious proof of Fishburn's interval order theorem 239

P.S. Bremser
Congruence classes of matrices in $GL_2(F_q)$ 243

Y.M. Chee
The existence of a simple 3-(28, 5, 30) design 251

K.B. Chilakamarri and P. Hamburger
On a class of kernel-perfect and kernel-perfect-critical graphs 253

R.J. Gould and V. Rödl
On isomorphic subgraphs 259

Q. Kang and Y. Chang
Further results about large sets of disjoint Mendelsohn triple systems 263

J.H. Kim
On 3-colorings of $E(K_n)$ 269

N. Seifter
On the girth of infinite graphs 275

J. Siemons
Permutation groups on unordered sets II; On a theorem of Frucht 285

J. Topp and L. Volkmann
Some upper bounds for the product of the domination number and the chromatic number of a graph 289

Addendum

To: O. Heden, On the modular n-queen problem 293

Corrigendum

To: D.A. Holton, D. Lou and M.D. Plummer, On the 2-extendability of planar graphs 295

Author index to volume 118 299